

What is claimed is:

1. A microemulsion composition for decontaminating chemical and biological warfare agent, comprising:
  - a microemulsion;
  - a solid source of peroxy carboxylic acid dissolved in the microemulsion; and,
  - a germinant in combination with the solid peroxy carboxylic acid within the microemulsion.
2. The microemulsion composition of claim 1, wherein the microemulsion comprises a surfactant selected from the group consisting of didecyl methylamine oxide, dimethyl decylamine oxide, and combinations thereof.
3. The microemulsion composition of claim 1, wherein the peroxy carboxylic acid comprises peracetic acid.
4. The microemulsion composition of claim 3, wherein the peracetic acid comprises peracetyl borate.
5. The microemulsion composition of claim 1, wherein the peroxy carboxylic acid is

present in an amount of from about 0.01 g/mL to about 0.20 g/mL.

6. The microemulsion composition of claim 5, wherein the peroxycarboxylic acid is present in an amount of from about 0.10 g/mL to about 0.15 g/mL.
7. The microemulsion composition of claim 1, wherein the germinant is selected from the group consisting of dipicolinic acid, alanine, asparagine, glucose, fructose, potassium chloride, and combinations thereof.
8. The microemulsion composition of claim 7, wherein the germinant comprises dipicolinic acid.
9. The microemulsion composition of claim 8, wherein the dipicolinic acid is present in an amount of from about 0.03 molar amount to about 0.30 molar amount.
10. The microemulsion composition of claim 9, wherein the dipicolinic acid is present in an amount of from about 0.15 molar amount to about 0.25 molar amount.
11. The microemulsion composition of claim 1, wherein the pH of the composition

ranges from about 7.0 to about 10.0.

12. A microemulsion composition for decontaminating chemical and biological warfare agent, comprising:
  - a microemulsion selected from the group consisting of didecyl methylamine oxide, dimethyl decylamine oxide, and combinations thereof;
  - peracetyl borate dissolved in the microemulsion; and,
  - dipicolinic acid effective for spore germination in combination with the peracetyl borate within the microemulsion.
13. A chemical and biological warfare decontamination composition comprising the microemulsion composition of claim 1.
14. A kit for decontamination comprising the microemulsion composition of claim 1.
15. An area decontamination system comprising the microemulsion composition of claim 1.
16. A process for decontaminating a contaminated surface, comprising the steps of:

providing a microemulsion composition having a microemulsion, a solid source of peroxydicarboxylic acid suspended in the microemulsion and a germinant in combination with the solid peroxydicarboxylic acid within the microemulsion; and,

applying the microemulsion composition to the contaminated surface effective for decontamination thereof.

17. The process of claim 16, wherein the microemulsion composition comprises a microemulsion, peracetyl borate and dipicolinic acid.
18. The process of claim 16, wherein the microemulsion composition comprises a surfactant selected from the group consisting of didecyl methylamine oxide, dimethyl decylamine oxide, and combinations thereof.
19. A decontaminated surface product produced by the process of claim 16.
20. A microemulsion composition for decontaminating chemical and biological warfare agent, comprising:  
a microemulsion;  
a peroxydicarboxylic acid in the microemulsion; and,

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a germinant in combination with the peroxy carboxylic acid within the microemulsion.